



From the INTERNATIONAL SEARCHING AUTHORITY

то:	NOTIFICATION OF TRANSMITTAL OF
MORGAN, LEWIS & BOCKIUS LLP	THE INTERNATIONAL SEARCH REPORT
latta Voitopheimer EriCD E.	OR THE DECLARATION
1111 Pennsylvania Avenue, NW	V.S. A.
Washington D.C. 20004	(PCT Rule 44.1)
UNITED STATES OF AMERICA OCT O	k 2003
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MORGAN, LEINIS	Figures:
	Date of mailing (day/month/year) 01/10/2003
57734-01-5005 00	(day/monayes/) 01/10/2005
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below
57734-5005W0	FOIL OIL TOTAL
International application No.	International filing date
	(day/month/year) 03/06/2003
PCT/US 03/17300	
Applicant	
THE TEXAS A&M UNIVERSITY SYSTEM	
THE LEXAS AND UNIVERSITY STOLES	
Later a March 1900	arch Report has been established and is transmitted herewith.
1. X The applicant is hereby notified that the international sea	no management and the second s
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the cla	
	the data of the lot th
When? The time little tilling such amounts for more International Search Report; however, for more	e details, see the notes on the accompanying sheet. Case
-04000	
34 chemin des Colombettes	C \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1211 Geneva 20. Switzerland	Action Diticle 19 Amend
Fascimile No.: (41–22) 740.14	
For more detailed instructions, see the notes on the a	ccompanying sheet.
un tit at an International Se	earch Report will be established and that the declaration under
2. The applicant is hereby notified that no international Se Article 17(2)(a) to that effect is transmitted herewith.	alon rioport um = = =
Article 17(2)(a) to trial officers	
to the second of (an) ad	Iditional fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision thereon has applicant's request to forward the texts of both the	been transmitted to the International Bureau together with the protest and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the	e applicant will be notified as soon as a decision is made.

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentiaan 2

4. Further action(s): The applicant is reminded of the following:

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Fax: (+31-70) 340-3016

Authorized officer

Véronique Baillou

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)



The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 57734-5005W0	FOR FURTHER see Notification o (Form PCT/ISA/2	f Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 03/17300	03/06/2003	05/06/2002
Applicant THE TEXAS A&M UNIVERSITY	SYSTEM	
according to Article 18. A copy is being to This International Search Report consists		
This also accompanies of	, 4 00 p, 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1. Basis of the report		
With regard to the language, the language in which it was filed, ur	e international search was carried out on the ba nless otherwise indicated under this item.	sis of the international application in the
Authority (Rule 23.1(b)).	was carried out on the basis of a translation of	
was carried out on the basis of the contained in the internat	nd/or amino acid sequence disclosed in the in the sequence listing: tional application in written form. ternational application in computer readable for	nternational application, the international search
1	to this Authority in written form.	
	to this Authority in computer readble form.	
the statement that the s	ubsequently furnished written sequence listing as filed has been furnished.	does not go beyond the disclosure in the
the statement that the in furnished	formation recorded in computer readable form	is identical to the written sequence listing has been
2. Certain claims were fo	und unsearchable (See Box I).	
3. Unity of invention is la	cking (see Box II).	
4. With regard to the title,		
	submitted by the applicant.	
the text has been estab	lished by this Authority to read as follows:	·
5. With regard to the abstract,		
TXT the text is approved as	submitted by the applicant.	B. III The applicant man
. La land has been estab	lished, according to Rule 38.2(b), by this Autho he date of mailing of this international search r	orlty as it appears in Box III. The applicant may, eport, submit comments to this Authority.
	ublished with the abstract is Figure No.	None of the figures.
as suggested by the ap		[A] 14010 of the lightest
· ·	ailed to suggest a figure. ter characterizes the invention.	
Decause this figure bet	or origination and account	

INTEF TIONAL SEARCH REPORT

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Intoi	tic Application No
PCT.	3/17300

A. CLASSIFICATION OF SUBJECT MATTER TPC 7 R01D57/02 C07K1/26	5

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \text{Minimum documentation searched} & \text{(classification system followed by classification symbols)} \\ IPC & 7 & B01D & C07K \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

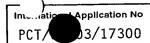
EPO-Internal

3. DOGO	ENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	
A	US 2002/043465 A1 (RYLATT DENNIS BRIAN ET AL) 18 April 2002 (2002-04-18) abstract; claims 13,18; example 1	1-35
A	US 4 243 507 A (MARTIN ARCHER J P ET AL) 6 January 1981 (1981-01-06) abstract; figure 1 column 5, line 50 -column 6, line 15	1-35
A	EP 0 369 945 A (ALIGENA AG) 23 May 1990 (1990-05-23) page 8, line 4-27	1-35
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Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.		
 Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family 		
Date of the actual completion of the international search	Date of mailing of the international search report		
24 September 2003	01/10/2003		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Degen, M		

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INTER ITIONAL SEARCH REPORT



		PC1/ 33/1/300		
C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	RIGHETTI P G ET AL: "Protein purification in multicompartment electrolyzers with isoelectric membranes" JOURNAL OF CHROMATOGRAPHY B: BIOMEDICAL SCIENCES & APPLICATIONS, ELSEVIER SCIENCE PUBLISHERS, NL, vol. 699, no. 1-2,	1-35		
	10 October 1997 (1997-10-10), pages 105-115, XP004094992 ISSN: 1570-0232 page 108, paragraph 3 -page 110; figure 2	1-35		
A	US 2002/060154 A1 (VIGH GYULA) 23 May 2002 (2002-05-23) claims 21,22; figure 2			
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INTER TIONAL SEARCH REPORT

nfor on patent family members

PCT 03/17300

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2002043465	A1	18-04-2002	WO AU CA EP	0224314 A1 9149101 A 2421450 A1 1333910 A1	28-03-2002 02-04-2002 28-03-2002 13-08-2003
US 4243507	Α	06-01-1981	DE DK EP WO GB JP	2861803 D1 265178 A 0006857 A1 7900002 A1 2036081 A ,B 54017376 A	01-07-1982 16-12-1978 23-01-1980 11-01-1979 25-06-1980 08-02-1979
EP 0369945	Α	23-05-1990	GB CA DK EP JP US	2225339 A 2002816 A1 569689 A 0369945 A2 2245653 A 5087338 A	30-05-1990 15-05-1990 16-05-1990 23-05-1990 01-10-1990 11-02-1992
US 2002060154	A1	23-05-2002	WO AU CA	0241976 A1 1484602 A 2429266 A1	30-05-2002 03-06-2002 30-05-2002